

**EASTERN UNIVERSITY, SRI LANKA**  
**DEPARTMENT OF AGRICULTURAL ENGINEERING**  
**FACULTY OF AGRICULTURE**

**FIRST YEAR SECOND SEMESTER EXAMINATION IN AGRICULTURE – 2017/2018**

**(Aug/Sept-2020)**

**AE 1201: FARM MECHANIZATION**

**Answer all questions**

**Time: One hour**

- 
1. (a) List out the major components of the fuel system in petrol engine. (15 marks)
  - (b) Briefly explain the **Thermo-siphon** cooling system. (35 marks)
  - (c) With the neat sketches explain the working principle of four-stroke diesel engine. (50 marks)
  
  2. (a) What are the functions of Carburetor in spark ignition engine? (15 marks)
  - (b) What are the major components of the power transmission system in four wheel tractor? (15 marks)
  - (c) What is primary tillage? List out the different primary tillage implements. (20 marks)
  - (d) Briefly explain the **Battery ignition system** with suitable diagram. (50 marks)

\*\*\*\*\*